

July 3, 1981

EPA Region 5 Records Ctr.



285911

Mr. Brad Benning  
Illinois Environmental Protection Agency  
1701 S. First Street  
Maywood, IL 60153

SUBJECT: TRANSMITTAL OF RCRA CLOSURE PLAN FOR  
PROCESS ALLIANCE PARTNERSHIP (PAP)- JOLIET;  
D.E.MATSCHKE COMPANY FILE NUMBER 1042.001

Dear Mr. Benning:

Please find enclosed the subject plan. PAP's closure plan is styled in the format of the sample plan that you were kind enough to provide to us. I have sent the plan to you since you are the only identifiable contact that PAP has had with RCRA.

Please advise our Joliet facility should you have questions or need more information. Also, if you can find the time, I would appreciate a short note to PAP- Joliet outlining our other specific RCRA obligations. I know we have more to do and I want to help our people remember to comply.

Sincerely,

D.E.MATSCHKE COMPANY  
TWO SALT CREEK LANE  
HINSDALE, IL 60521  
312-325-2235

Donald E. Matschke, President  
D.E.MATSCHKE COMPANY

Partner,  
PROCESS ALLIANCE PARTNERSHIP

PROCESS ALLIANCE PARTNERSHIP  
608 Railroad  
Joliet, IL 60436  
815-722-0900

0603

## CLOSURE PLAN

EPA FACILITY I.D. NO.-ILD000665752

NAME - PROCESS ALLIANCE PARTNERSHIP

ADDRESS - 608 Railroad, Joliet, IL 60436, 815-722-0900

### I. FACILITY CONDITIONS

#### A. General Information

1. Size - 0.5 acres
  2. No. of tanks - 18
  3. Storage
    - a. Type - bulk
    - b. Capacity - 179,000 gallons
  4. Other facilities on-site
    - a. Type - processing tanks, filters, closed dumpsters
    - b. Capacity - 45,000 gallons (tanks), 4 cubic yard (filters), 40 cubic yard (dumpsters)
  5. Waste characterization
    - a. Spent pickle liquors, etchants, etc: 1-10% liquid sulfuric or hydrochloric acids containing 1000 - 10,000 ppm soluble metals such as iron, chrome, zinc, etc., non-combustible, specific gravity = 1.1
    - b. Byproduct lime slurry 35% as calcium hydroxide, non-combustible, specific gravity = 1.4
    - c. Spent caustic scrubbing aqueous solution, 1-5% sodium hydroxide and containing 1000-6000 ppm dissolved sulfides, 1-2ppm cyanide and 1000-10,000 ppm aliphatic and aromatic hydrocarbons, non-combustible, specific gravity = 1.05
    - d. Metal sulfide and hydroxide slurry in water, non-combustible, specific gravity = 1.1
    - e. Metal sulfide and hydroxide filter-cake solids, non-combustible, specific gravity = 1.5
    - f. Recovered oil, 100% aliphatic and aromatic hydrocarbons, combustion temperature  $>536^{\circ}\text{F}$ , specific gravity = 0.9
- B. Maximum inventory on-site = 220,000 gallons plus 40 cubic yards
- C. Auxiliary equipment inventory - two 5-10 HP transfer pumps, two 3-7.5 HP acid pumps, two 5 HP decant pumps, seven 100 - 200 GPM air-driven diaphragm pumps, four polymer and filter-aid tanks, two polymer pumps, two 25 HP reciprocating air compressors, one end loader/fork lift complete with covered filter-cake self-unloading hopper, six 10 HP vertical turbine mixers.
- D. Schedule of final closure
1. Final date wastes accepted: F day
  2. Dates for completion of inventory disposal
    1. Final date wastes accepted: F day
    2. Dates for completion of inventory disposal
      - a. Date processing complete: F day plus two weeks
      - b. Date on-site disposal complete: Non-applicable
      - c. Date inventory disposed on-site: F Day plus two weeks
      - d. Date inventory removed off-site: F Day plus three weeks
    3. Final date facility decontaminated: F Day plus five weeks
    4. Final date closure completed: F Day plus six weeks
    5. Total time required to close the facility: six weeks

## CLOSURE PLAN

### II. REMOVING ALL INVENTORY

#### A. Maximum amount of waste on-site

1. Drum waste - None
2. Tank waste
  - a. Spent pickle liquors, Etchants, etc.- 20,000 gallons
  - b. Byproduct lime slurry - 5,000 gallons
  - c. Spent caustic solution - 170,000 gallons
  - d. Metal sulfide/hydroxide slurry - 25,000 gallons
  - e. Metal sulfide/hydroxide filter cake - 40 cubic yards
  - f. Recovered oil - 5,000 gallons
3. Other wastes - none

#### B. Pretreatment

1. Quantity requiring pretreatment - 195,000 gallons
2. Pretreatment process - Decant float oil from spent caustic storage tanks; combine spent pickle liquors, etchants, etc. with spent caustic scrubbing solution to neutral pH range. Use byproduct lime slurry optionally for added alkalinity. On site processing tanks and mixers are used for this operation.
3. Pretreatment quantity requiring further treatment and disposal - 190,000 to 195,000 gallons

#### C. Procedure for further treatment and disposal

1. On-site
  - a. Quantity - 190,000 to 195,000 gallons
  - b. Method - Polymer conditioning with mixing, quiescent settling, decantation of supernatant to municipal sewer, transfer of settled solids to filter-press with more polymer and filter-aid addition, dewater solids on filter, cake discharged to closed dumpsters.
  - c. On-site covered filter-cake required storage - 40 cubic yards
2. Off-site
  - a. Quantity to off-site disposal - 40 cubic yards
  - b. Method of disposal - incorporation with non-putrescible in non-hazardous, specific waste landfill
  - c. Distance to landfill - one half mile

### III. Decontaminating the facility

#### A. Contaminated soil area - None at present, contaminated soils from earlier spills having been located, excavated and removed

1. List of areas - None
  - a. Number of soil samples - None
  - b. Criteria for determining contamination - Odor, pH.
2. Estimated soil depth requiring removal - One foot where previously removed
3. Total amount of contaminated soil
  - a. Disposed of on-site - None
  - b. Disposed of off-site - 20 cubic yards

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## CLOSURE PLAN

### B. Equipment requiring cleaning

1. All equipment - Water washing with processing of wash water, as necessary, and disposal to sewer of process-treated wash water. Solid residues disposed of via filter-press to landfill.
  - a. Labor required - Plant operators
  - b. Residue quantities - Estimated 200,000 gallons of wash water and 4 cubic yards of solid filter-cake residues.
2. Treatment and disposal of residues
  - a. On-site treatment - 200,000 gallons of wash-water effluent to municipal sewer
  - b. Off-site disposal - 4 cubic yards of filter-cake from filter press to landfill one-half mile distant.

### IV. Closure Certification

- A. Number of inspections required by certifying engineer - six.